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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/660,556 09/12/2003		Arun Kumar Sinha	056859-0189	6407			
22428	7590	08/10/2004		EXAM	EXAMINER		
FOLEY AN	ND LAF	RDNER	KEYS, ROSALYND ANN				
SUITE 500 3000 K STR	EET NV	V		ART UNIT PAPER NUMBER			
WASHINGTON, DC 20007				1621			
				DATE MAILED: 08/10/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		A		A - ulicant/o					
		Application No	) <b>.</b>	Applicant(s)					
	Office Action Commence	10/660,556		SINHA ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Rosalynd Key		1621					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠ R	desponsive to communication(s) filed on 21	June 2004.							
,	This action is <b>FINAL</b> . 2b) This action is non-final.								
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) \( \times \) C 5) \( \times \) C 6) \( \times \) C 7) \( \times \) C 8) \( \times \) C	4) ☐ Claim(s) 36-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 36-44 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.								
Application	n Papers								
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>									
Priority un	der 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice of 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08	4) [ 8) 5) [ 6) [	7		O-152)				

Page 2

Application/Control Number: 10/660,556

Art Unit: 1621

### **DETAILED ACTION**

### Status of Claims

1. Claims 36-44 are pending.

Claims 1-35 are cancelled.

Claims 36-44 are rejected.

## **Specification**

- 2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:
- 1) In step (a) of claim 36 there is no support for the limitation "alcohol". The specification only provides support for "methanol" or "ethanol".

## Claim Objections

- 3. Claim 36 is objected to because of the following informalities: the words "dihydroasarones" in line 4 and "dihydroasarone" in line 5 are misspelled. Appropriate correction is required.
- 4. Claim 40 is objected to because of the following informalities: the word "solvent "in line 1 is misspelled. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

Application/Control Number: 10/660,556

Art Unit: 1621

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Page 3

- 6. Claims 36-44 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- a) The specification provides support for 3-ethyl-2-methyl-3-(2",4",5"-trimethoxy)phenyl-1-(2',4',5'-trimethoxy)phenyl-1-propene, but does not provide support for 3-ethyl-2-methyl-3-(2,4,5-trimethoxy)phenyl-1-(2,4,5-trimethoxyphenyl)phenyl-1-propene (see page 1).
- b) The specification provides support for stirring  $\beta$ -asarone with methanol or ethanol, palladium on activated carbon and ammonium formate, , but does not provide support for stirring dihydroasarone as disclosed in step a of claim 36 (see page 18, second paragraph).
- c) The specification provides support for precipitating DDQH<sub>2</sub> but not DDQH<sub>3</sub> as disclosed in step d of claim 36 (see Example II on page 19).
- d) The specification does not provide support for a second washing with brine, as disclosed in step (i) of claim 36.
- e) The specification provides support for chromatographing the residue, but not for purifying the residue as disclosed in step (k) of claim 36 (see Example II on page 19).

Application/Control Number: 10/660,556

Art Unit: 1621

f) The specification provides support for eluting with a hexane-ethylacetate mixture, but does not provide support for eluting solely with hexane as disclosed in claim 44 (see Examples).

Page 4

- 7. Claims 36-44 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for using organic acids such as propionic acid or acetic acid, does not reasonably provide enablement for all organic acids. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. Originally the claims were limited to washing with an organic solvent such as acetic acid and propionic acid, but the claims have now been broadened to include all organic acids. However, the specification is enabling for organic solvents, but not organic acids because not all organic acids are organic solvents. For example p-toluenesulfonic acid is an organic acid, but it is a solid and thus, would not be useful as a solvent.
- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 9. Claims 36-44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 10/660,556

Art Unit: 1621

Claims 36-44 are indefinite because step (c) includes the limitation "mixing 2,4,5-trimethoxyphenylpropane obtain in step (c)...

10. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "dichloromethane" in claim 41 is used by the claim to mean "an organic acid", while the accepted meaning is "a halogenated hydrocarbon." The term is indefinite because the specification does not clearly redefine the term.

### **Response to Amendment**

11. The abstract of the disclosure is acceptable.

### Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened

Art Unit: 1621

statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosalynd Keys whose telephone number is 571-272-0639. The examiner can normally be reached on M, R and F 3:30-8:30 pm and T-W 5:30-10:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rosalynd Keys ' Primary Examiner Art Unit 1621